



SEE STORY
ON PAGE 9

FLORIDA SKIP

Vol. 10 No. 8

The All Florida Radio Amateur's Publication

January 1967

Price 20¢

Annual RTTY Meeting

The 9th Annual Meeting of the Florida RTTY Society, Inc., will be held Sunday, January 8th, in the Dobbs House, Daytona Beach, Florida starting at 10:00 A.M.

A full program has been planned including the election of officers for the new year, President's Awards, annual report of the Society's activities during 1966, all topped off by an excellent dinner.

All RTTY amateurs are invited to attend this annual affair. Reservations are \$3.75 each. Contact the Society's secretary, Fred DeMotte, W4RWM, Box 6047, Daytona Beach, for additional information regarding reservations, accommodations, etc.

Another First In Florida

Until otherwise corrected, W4ZAG of Tampa holds another RTTY first. Rex Peters, Manager of the Florida Amateur Teletype Traffic net, worked Eva YV1IK/5 in Caracas, Venezuela on 10, 15, 20, 40 and 80 meters RTTY in the SAME DAY. Sure — it can be done on c.w., but try it on RTTY.

Eva sent Rex a photo of herself working on the RTTY rig. Rex says she a beauty. We hope to talk him out of the photo to publish next month. Congratulations to both YV1IK and W4ZAG.

FATT meets nightly on 3704

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A very fine picture of Hal Greenlee, K4GYO-TV, of Merritt Island sitting at the controls of his well laid-out "studio". Note the Tektronic scope, monitors and view finder transistorized camera.

Traffic Hounds Breakfast

A "Traffic Hounders" breakfast for ALL traffic men and women is being planned for Sunday morning January 22, for those attending the ARRL convention and Tropical Hamboree. George Thurston, W4MLE, author of the newly published ARRL "Radio Amateurs Operating Manual", will be our guest speaker. Further details as to exact time and place will be QNC'd all nets.

AMATEUR TV

By K4VFV

As promised in our last article, we will this month cover the station and history of Hal Greenlee K4GYO, 430 Island Beach Blvd., Merritt Island, Florida.

K4GYO first transmitted TV pictures in September, 1963 after 7 or 8 months spent rebuilding a Dage camera and building a transmitter. Receiving tests were run with two amateurs within 6 miles. One, Jim Stone W4NSA, Cocoa, be-

came interested and Hal helped him set up a station.

During 1964, Jim and Hal ran many tests and Hal transmitted a comedy skit, a technical demonstration and several 16mm movies to him. At this time K4GYO-TV had two small Dage viewfinder cameras, three 8 inch monitors, a central sync generator, and a switcher-fader feeding a 50 watt average power input transmitter. W4NSA-

(Continued on Page 16)

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Dear Mabel XYL Award, c/o Skip, Box 501, Miami Springs, Fla.

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Thurston, W4MLE, 2116 Gibbs Dr.,
Tallahassee.



Letters To Editor

Dear Andy:

The enclosed check of \$5.00 is for a (New) three year subscription to Florida SKIP.

I moved to Cocoa Beach from Long Island, N.Y. May 1966. My old call was W2NI, received this fourth distinct call K4NI about 10 weeks ago. I am employed at Cape Kennedy on the Apollo Space Project.

I am also enclosing an advertisement on some radio equipment that I have for sale to be placed in the Ham Bar Column. This equipment is new has never been used. I am interested in buying an E-Z Way galvanized crank up and fold over with ground post (RBX 40 Type), between 25 and 40 feet high, must be in A-1 condition and the right price.

73

Walter Bickmeyer, K4NI

Editor:

Thought I'd write a few lines to let you know that Jack, K4NTD and I are still working the 75 mile path between Oakland and Palm Bay on 1296 Mc. after our year of operation on the band. We have no regular schedule at present, but both of us can be found around 1296,075 mc when conditions are good on 2 meters.

The night of November 25 was a very good one. Jack was coming in so strong that he could be copied Q5, S4 on a small indoor antenna made from a one gallon oil can. Of course I had to cheat a little by removing the screen from the window on the northeast side of the house. This just goes to show that when condx are good even simple antennas and simple gear will work out OK.

We both noted a radar signal at 1295 mc that appears to be somewhere in the palm-handle of our state. It was in here good enough to be heard throughout the complete 360 degree rotation of its antenna.

Jack and I are both eagerly looking for schedules with other stations on 1296 (Try W4HS in Miami, Ed) particularly in the Jacksonville or Miami areas. I think even an APX-6 would make the grade on a "hot" night although it would be difficult to copy an APX-6 transmitter on the selective receivers we are using.

There is also some 220 mc. activity in my area with about 5 stations on at present. Would like to hear from others interested in either 220 or 1296.

73 Jim Hagan W4GHK
826 Port Malabar Blvd.
Palm Bay, Fla. 32901

Dear OM:

Thought you might like to mention in SKIP or QST about the Novice Hurricane Net Traffic totals for November. We handled 14 messages in November and average QN1 was 6. Net average QTC was 2.3. NHN meets at 1930Z on 7185kHz, every Saturday. Net speed is about 10 wpm and so far results have been very good.

Thank you and 73,
Fred W4YAK, Tampa

FLORIDA SKIP:

May I add my congratulations for a very fine job being done with FLORIDA SKIP. In my earlier (and some-

what more palmyer) days, one of our jobs was a monthly publication then known as a "House Organ." So we do know something about meeting deadlines and observing how short it was from the first to the thirty first of each month.

Want also to comment on the effectiveness of the circulation for the "Hambar" ads. Have used this on two occasions, and the response was excellent. In fact, on the last one it cost me over a buck for return postage on checks I received for an item already sold!!! Sure can't kick on that. 73

Cordially,
Bill
W4CCD

W.H. Kibbe, W4CCD
1575 Bellerose Dr. E.,
Clearwater, Fla. 33516

SWR vs. Harmonic Radiation

A number of amateur radio operators have tried every practical means to achieve the theoretically ideal 1:1 standing wave ratio, but each effort has ended in failure. SWR reading as high as 2.5:1 (or more) often remain, even though a perfect match was secured at the antenna feedpoint as well as between the transmitter and the feed line. The amateur experiencing this problem usually wonders where he should look next for a solution. The first impulse is to replace the feedline, due to the (usually) false assumption that it is defective. Next, it may be thought that the SWR bridge is the defective culprit and it is possible that this could be true in rare circumstances. Don't overlook the possibility of improper balance in the pick-up circuit for your SWR bridge because some homebrew ones do not balance properly, due to either non-symmetrical physical construction or poor matching between termination resistors and/or detecting diodes; nevertheless, commercial units seldom produce faulty readings.

Assume that all instrumentation is functioning properly, the antenna is perfectly matched to the feedline, and the transmitter's output is perfectly matched to the feedline. These 3 things are all that are usually required to achieve the desired 1:1 match, but we may find that we still have a 2.5:1 (or greater) reflected power level. At this point we may consider the RF energy which we are feeding

(Continued on Page 9)

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Model RBS-RP shown
on TOP mounting.

Dear Gladys . . .

Dear Gladys:

I'd rather you heard it from me than from somebody else, and I hope we'll still be friends. I mean, being a ham's wife you ought to understand that I didn't mean for it to happen, but Clyde was so busy and all. Guess I just got lonesome. And there he was with that soft, tender voice. The man on WWV. Old dreamboat.

I started listening to him one day because Clyde had it on so loud. Even above the splashing dishwasher he sounded so poised and well, like a man of distinction. So sure of himself.

He said, "National Bureau of Standards, WWV. At the tone the time will be 10:30, Eastern Standard Time." Just like that. No doubts. He KNEW. You just have to admire a man like that. I mean, if you asked a man like that what he wanted for dinner he wouldn't say, "Anything, kid, as long as it isn't burned." He'd say "rare steak with mushroom sauce and I'll toss the salad." And if you used candles on the table HE wouldn't say, "Hey, what's wrong with the chow? You tryin' to hide it?"

Gladys, really and truly, I didn't know what was happening to me when I heard WWV. All I knew was that I could hardly wait

for each five minutes to pass, and when he'd announce the time I wanted to, oh, I don't know, I wanted to SET EVERY CLOCK IN THE HOUSE! That voice! You've heard him. He broods. He thinks deep. Sort of an American Charles Boyer. Or Marlon Brando with a tie on.

And you can tell he's considerate. He never gets excited. If HIS wife backed into a stop sign, he wouldn't keep asking her how she could back into an intersection on the wrong side of the street. He'd understand. He wouldn't make a big issue out of a human little mistake.

Oh, I know we'll never meet. He'll never know me and I'll never know him. I'll have to be satisfied with listening every chance I get, and worrying about him when he sounds sulky and being glad when he sounds happy. (Thursday at 2:15 there was a teeny smile in his voice. Only a little one, but it was there). And some days he sounds tired and bored...

That Sneaky, sly dogged Clyde. He turned off the rig and came in and read the whole first page of my letter before I caught him. And he laughed and laughed. He wasn't even jealous. He makes me furious sometimes.

Well, gotta run. Clyde and I are going to the movies. He says a night out will get me back to normal again so I won't flip every five minutes. Isn't he an old silly?

Love,
Mabel

P.S. I believe Clyde is very observant. He says anybody who can sit around all day long and do nothing but bounce a ping pong ball and look at the clock is not quite right. He can't possibly have a well-balanced personality. Goodness, he doesn't even have a hobby!

W4BKC

SILENT KEY

Ernest W. Leeson, (Ernie), K4GHL on Tuesday November 22, 1966. He had moved to Florida from Chicago several years ago and was a very active member of the Orlando Amateur Radio Club, Inc. He had served for several years as a Civil Defense Radio Officer, and was a real active Amateur. His passing will leave a real void in the local Amateur Ranks.

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The Florida Side Banders Association

By Bill Blasingame WA4NEV

It certainly does not seem as though I have been writing this column for six months. Time has moved along so rapidly that it is rather difficult to realize that this is my last column.

The Side-Band Association held election of officers for the first half of 1967 and they are as follows: President - Tom Chisholm W4FP; 1st Vice President - Bill Blasingame WA4NEV; 2nd Vice President - John Coffing K4NKA; Secretary - Chuck Ritchie W4BUG; Treasurer - Tony Litschauer W4JQ and Emergency Net Manager - Vance Vogel W4OVE. Congratulations to this slate of officers and a big vote of thanks to the nominating committee for the fine job they performed.

This seems to have been a busy six months for the Association what with a hurricane to bring the Emergency Net into operation and also getting our Mobile Net started. The F.A.-S.T. Net under the guidance of its manager W4FCP has grown in number of participants and amount of traffic handled. Congratulations to you Kris for a job well done.

In addition to all of this, the Association membership has been increased by about twenty new members. The latest to be certified were K4FQU Earl Spencer, 1413 Davis Drive, Ft. Myers member number 284. Earl's birthday is June 28. He is married, has two children and is manager of a building supply firm. Also certified as member number 285 was Edward Murphy WA4GCF, 2921 Myers St., Leesburg. Ed has lived in Florida for 13 years and works for the City of Leesburg. He is married and has three married children.

I would like to take this opportunity to congratulate Jess W4MVB Tom W4FP, Don K4QAY, Tony W4JQ and Vance W4OVE for the outstanding job they have done for the Association. It has been an extreme pleasure for me to have been a small part of such a fine group. My job as Secretary has been an honor and a pleasure for the past six months. I am also looking forward to working with the new officers and hope that I will be able to do as much for the Association as it has done for me.

Merry Christmas, Happy New Year and I hope to see y'all in Miami.

73's and Gud Luck.

Bill

Experts

He said, "I don't subscribe to QST, 73, CQ, nor any of the other blabber sheets." This fellow was expounding on all facets of amateur radio. He seemed "imbued" with amateur radio knowledge.

Now I'll admit that you don't have to subscribe to all of the current amateur publications. What I cannot understand is how anyone can keep up to date without some outside amateur reading.

In my book fellows like this qualify as "experts". The definition being, "X-SPURT, x, the unknown quantity and spurt, a drip under pressure."

For the upcoming future generation of hams who listen to such dribble please remember that, "an open mouth does not necessarily indicate an open mind."

ONYX

TRAFFIC HOUNDS

By Ham K4SJH SCM EFLA

NET	QNI	QTC	SESSIONS	AVG QTC
FAST	1008	320	26	12.8
GATOR	217	162	30	5.4
WPTN				
FPTN	494	213	26	8.2
FMTN	500	408	26	15.7
TPTN	591	380	26	14.4
QFN		574	60	
FATT	143	83	30	2.4
SATN	418	581	25	23.2
SATN	391	450	26 (Oct.)	17.3
NHN	24	14	4	2.3



George Reeves WA4WBF of Winter Garden, Fla. sports this 3 element rotary mobile 2 meter beam. It is fed with RG-58, controlled from the driver's seat by means of an auto-electric window motor driving a high ratio pulley system of his own design all enclosed in a metal box. By changing one folt, the beam can be used vertically or horizontally. It is reversible and turns at a slow speed. A metal arrow on the mast points direction of beam which can be seen through the back window. The whole thing, (bracket, mast, and beam) can be taken off the trunk and set up or put back on in less than one minute.

(Photo by K4NTD, Oakland)

E/F RM Static

By Reg Kramer W4ILE

As you newly appointed Route Manager objective number one will be coordinating election of a new QFN Net Manager (E. Fla.). Election will take place on QFN LATE SESSION January 11. We would like two or three volunteers as candidates for this opening. Please ARLSEVEN W4ILE if interested. The new Net Manager will not be entailed with Route Manager activities. It has been judged best to separate these two jobs in the E. FLA. section. As you know the Net Managers on QFN alternate every six months between E. and W. FLA.

The Net Manager's primary responsibilities are, (1) arrange NCS and RNRPS assignments, (2) "coaching" and advice for net members via QNC and net bulletin etc., (3) receiving QNS reports from NCS, compiling and submitting info to QFN bulletin and to the SCM. A Net Manager is certainly not expected to QNI all sessions so don't let those irregular working hours hinder your desire fellas.

January 11 is a Wednesday and our "retired ex-officio" Chuck/W4LUV will be NCS to guide our election. It is tentatively planned to have a sub-control stn down-10 and up-10 to take a poll of the nominees. Results will be QNC'd January 18. This will give time for

those unable to QNI on the 11th to postcard their choice to W4ILE. Any E. FLA AMATEUR who WNIS QFN is eligible to vote.

A composite FLORIDA TRAFFIC HANDLERS ROUTING GUIDE is being worked up and it is hoped we will have it ready for distribution at the HAMBOREE ARPSC BOOTH. Any station having special outlets including VHF net coverage, MARS liaison, international liaison and special schedules, are urged to ARL SEVEN or write details, as soon as possible to: Regis K. Kramer W4ILE, 195 N.E. 76th St., Miami Fla. 33138.

73 and see you at the HAMBOREE.

ARRL Net Directory

The annual ARRL cross indexed Net Directory is now ready for distribution and copies are being mailed to those who have requests on file.

If you have previously made such a request, and have received and acknowledgement card, please do not request another Net Directory. All others wanting a copy should mail or radio a request to the ARRL Communications Department, 225 Main Street, Newington, Connecticut 06111.

TROPICAL HAMBOREE DADE RADIO CLUB, INC.

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- 1967 -

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SATURDAY ACTIVITIES AT THE AUDITORIUM

- 9:00 A.M. - Registration Begins
- 10:00 A.M. - Early Bird Drawing
- 10:30 A.M. to 1:30 P.M. - Auction
- 2:00 P.M. - MARS Program
- 3:30 P.M. - DX Program
- 5:00 P.M. - Auditorium Closes for day.
- 7:30 P.M. - Buffet Style Banquet at Everglades.

SUNDAY ACTIVITIES AT THE AUDITORIUM

- 9:30 A.M. - Auditorium Opens
- 10:00 A.M. - Talk on Meteor Scatter
- 11:30 A.M. - History of Technical Development in Amateur Radio George Grammer, QST
- 1:30 P.M. - The Conquest of Light and Laser Demonstration
- 3:00 P.M. - ARRL Meeting and Program
- 4:30 P.M. - Florida Skip Awards and Main Prize Drawings
- 5:30 P.M. - Convention Closes



LADIES PROGRAM - BOTH DAYS 11:00 A.M. and 3:00 P.M.

Schedule of Breakfasts, Luncheons, DX Dinner and Organizational Meetings will be available at auditorium during convention.

CLUB NEWS

WESTERN FLA. NEWS

Frank M. Butler, Jr., W4RKH

Madison: WA4GHE is active again on 75 and 40 with an Eico 753. Tallahassee: W4WSY was appointed the new EC for Leon County. He is Chief Engineer for WMEN. W4GAA has a new Henry 2K linear. WA4EOQ has the bugs out of his linear, thanks to W4JM. W4MLE held open house to autograph copies of the new ARRL operating manual. Be sure to get yours. Chipley: WA4ZFK and W4IKB took part in recent state CD drill. WA4SRR was appointed Asst. EC, and is preparing county plan for CD Director. Panama City: K4VFF made FB score in SS contest. K4PMO moved to Georgia, but keeps in contact on 75 meters. W4FOX has built facsimile equipment to receive weather satellite broadcasts.

Fort Walton/Eglin: W4ZWD is back after another ocean voyage. W4HNI and WA7ABH are mobile on 2-meters; WA4ZTW is mobile on 6. WA4AFG runs a Heath SB-110 on 6m SSB. The EARS Club held another FB auction, run by W4JNL. EARS members were called on to aid the CAP in search for a missing aircraft.

Pensacola: K4BSS and W4OOW are striving to get the PARC going again. K4QOJ held a meeting to reorganize the CD group.

POLK COUNTY

With the election and installation of officers in the Polk Co. Civil Defense Amateur Radio Comm. Soc. Club Station W4TJM is located in Bartow. The officers are: Chairman, K4EBO, "Lucky" Parker; Vice Chairman, WA4WZD, Jack Wright; Sec. Tr., WA4LIW, Jack Lightner; Trustee, K4EBE, Ed Nevins; Directors, WA4ZRA, Russ Bymer, K4AAI, Art Norman, and WA4WZZ, Ken Hartley.

Local Traffic and Information net meets on Wed, following the RACES at 2000. We welcome all to check in. The Club meets the 1st Thur. of the month. The door is always open. WA4WZZ Ken Hartley Rt. 6 Box 1233 Lakeland, Fla. 33801

NOFARS NEWS

By Jesse H. Morris, W4MVB

As this is being written the year is coming to an end. We have had a very successful year here in North Florida. Many things have been accomplished. As we go into the new year we hope that we can continue our fine activities of last year and maybe even improve on them.

Just to name a few of our accomplishments this year: We operated Field Day from the Gator Bowl and made what turned out to be the highest score in Florida. We were also first in W4 and seventh in the nation in the two transmitter class. If we had not lost a log sheet we would have been even higher. We had a tour of a local TV station holding

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our meeting in a studio at WJXT-TV channel 4. We furnished communications for the Boy Scouts and Goodwill Industries to collect donated items for Goodwill Industries. We had a picnic and transmitter hunt in the spring. We obtained the call W4IZ as a club call. (This means at least 25% more FD contacts!) We had the Director of the Southeastern Division of ARRL Mr. Chuck Bolvin, W4LVV visit us during the year. We had the Vice-Director of the Southeastern Division and Section Communication Manager of Eastern Florida Mr. A. L. Hamel, K4SJK, visit us during the year also. We had the President of DAVCO, INC. Mr. James Lovett visit us during the year. We had an operating booth at the Greater Jacksonville Fair. All these things and many more took place during 1966. With the kind of leadership we expect from the officers elected for 1967 we should do as well and perhaps better.

The slate of officers elected at the December meeting to serve for the calendar year of 1967 are as follows: President - Ron Locke, W4YYPX, Vice-President, John Dent, WA4MEJ; Secretary, Al Baumgartner, WA4WOV; Treasurer, Leo Nielson, WA4SQM; Activities Manager, Carl Barr, WA4WPQ. This is a fine slate of officers and we expect to have a banner year in 1967 under them.

As this writer expects to be busy with other things in the coming year this column will be taken over by another Jacksonville amateur Howard Kelly, K4DSN. Howard is a news editor on a local television station. He will also edit the club bulletin the BALANCED MODULATOR. I think everyone will find this an interesting experience so I would urge all who have "dropped by the wayside in the past to come on back to the club and join up for the coming year. It promises to be interesting and exciting.

That is all for this time and for the year. It has been my pleasure to do this column this year. I have enjoyed it and I hope you have. Until next time 73 and good luck.

DE W4MVB

ORLANDO RAMBLINGS

Hal W4BKC

Newest member of the Two Meter net is Witt, K4GA. Welcome Aborad! We gave him a real good workout during the recent Nat'l C.D. Exercise.

The 1967 calendars should be making their appearance; don't forget to put a big red circle around APRIL 29-30th that will be the weekend of the ORLANDO HAMFEST - at the CHERY PLAZA HOTEL, ORLANDO.

That 4KW PEP ad in Dec. QST really got some of the local boys stirred up - how illegal can one get? And advertising it yet - very poor taste or a very great oversight on the ad copy proofreader - Blue Pencil.

The Shea's have added to the wall of their shack two new Certificates - Ev K4UIZ is now an official Bulletin Station, and Hal, W4BKC has one of the

new official UHF Station certificates.

The "OSCAR" program like any other space effort is having a little bug trouble - but the delay will ensure a better operating satellite - so be a little patient - I don't think they have decided which one of the different types available will make the flight first - but many will be avidly awaiting the news that one of the "Birds" is in flight.

FLASH - It is now Official that the Third Navy Recruit Center will be located in Orlando - approximate complement about eight thousand. Wonder how many news hams that means?

TAMPA AMATEUR RADIO

By Marvin M. Bostian, WA4HDK

NR66R W4ZAG NO CHECK VIA AMATEUR RADIO TELETYPE TAMPA FLORIDA. 190Z 8 DECEMBER 1966.

BT

TO: ANDY CLARK, W4IYT. MIAMI SPRINGS, FLORIDA. (FOR SKIP) BT

TARC has just completed a very interesting year with a dinner party for all members and their wives. The dinner was held at the Turf Lounge in Tampa on December 19 with a very nice turnout. There was no formal program. The president, Glen Averill, WA4LLU, made a few remarks about the past few months' activities and spoke about the plans for the rest of the club year. As usual, this party was the social highlight of our year.

The December 5 meeting was very informative, in that Mr. Charlie Pittman, Director, Data Processing Department, Tampa Electric Company, spoke on the rapid growth and use of computers. He delved into its anticipated impact on the lives of individuals in future years. This was a well received program, since TARC had visited Tampa Electric's Data Processing Department only a few weeks before.

B.A.R.C.

By Jim Wilson, W4GDK

Our Club's annual banquet is only a few days away and we all are anticipating a jolly evening together with lots of good food and cheer.

The past year has been a very busy one for our Club. Our officers spent many hours on club work. As a Club we sincerely thank Fred Schmidt, W4NYF; Jack Wainwright, W4IEH; Ruth Christian, WA4HED; Sherry Friedlander, WA4UMT and Ken Nordine, WA4UYO.

With our Club dues of \$3.00 coming due at the end of the year the Club is following through on Project "Hamquest" by urging our members to include their ARRL dues of \$5.00 which includes a subscription to QST.

There is no organization in the world which does as much for the hams as does A.R.R.L. This I can say without fear of contradiction because I have been a member of the League for 45 years and QST has steadily grown in its effectiveness. I always look forward to its arrival in the mail.

Don't forget - this year our famous Auctionfest will be held in a new place. It will be at Chaminade High School in Hollywood, March 11, 1967. If you come on I-95, turn off at Holly-

wood Blvd. to 52nd Ave. Then turn North to the school. If you come on the Sunshine Parkway, get off at Exit 2 and go East to 52nd Ave., then North to the school. There are going to be lots of bargains!

Our Club meetings are held the second Wednesday of each month at the Broward County Medical Assn. Bldg., 2200 South Andrews Ave., Ft. Lauderdale, starting at 8 PM.

We invite you all to attend.

W. PALM BEACH AMATEUR

By John A. Benjamin Jr. W4HAW

We hope you had a most wonderful Christmas. Ours at the Club was also enjoyable.

The regular business meetings was held December 6, when Ted Kohl, WA4IXU, resided. After the business part was completed, a film was shown by ARRL. It was a training film in Electronics. The film was an introduction to Electronics.

There are classes now in session at our Club every Friday night at 8 PM. Jim Hughes, W4EXO, is our teacher. We have about 8 pupils!

If you would like a sked with the Club, just send us a date and time and we'll be there! Send your skeds to me John Benjamin, Secretary, W. Palm Beach, ARC, W4HAW, 823 Newark Street, West Palm Beach, Fla., 33401.

Also we would like to invite any and all to eye ball us here in person. Any Monday or Friday night.

Our good buddy, John Szymanski, WB4EGU, left for the Air Force and his basic training. He's now in Texas. We wish him the best of luck! John's going into Radio Broadcasting in the service (he hopes).

Well again I guess that's about it from the Palm Beaches.

We want to wish all of our readers the most prosperous 1967. Hope everything goes just as you plan it. But, let's remember to take it easy over New Years Holiday, cause I can't afford to loose one of you! Hi Hi.

73 from me and the Club.

John Benjamin

INDIAN RIVER

By D.R. Klobe WA4KJV

This month was a very exciting month. We started off with a lecture on quartz crystals and a grinding demonstration by Bob Bruner, W4KDT. Bob has been grinding crystals for a long time now. He showed us some of the various pitfalls when grinding crystals. I'm sure we all learned something new, I know for sure I did. I've been wondering what I'm going to do with all those crystals I've got that are out of the band. Bob is going to round out his lecture at a future meeting with a discussion on crystal filters for SSB rigs receiver's, etc.

It was brought to our attention by the local newspapers that mail to our GI's overseas was bogging down, so with this in mind our club set up three stations at our local shopping centers to handle Thanksgiving traffic. An emphasis was placed on traffic to our GI's overseas. With the aid of the local MARS station at Patrick AFB and various members of the Florida traffic nets, the messages moved very rapidly. The IRARC wishes to express its thanks to both

CLUB NEWS

INDIAN RIVER con't.

groups for a job well done in assisting us and making it such a success. There was a total of 138 pieces of traffic handled. We closed the stations at 1600E and the last piece of traffic was relayed at approx. 1700E. Another traffic party is in the mill for Christmas traffic on Dec. 9th and 10th.

This month was election month for our club. The following officers were elected: President, B. Bruner, W4K-DT; Vice Pres., D. Dean, W4RIA; Secretary, D. Klobe, W4KJV, Treasurer, D. Sinclair, K4APC and Activity Chairman, T. Dingman, W4HCG.

Well, so much for another month past. Best of 73's es ARRL 60 to all.

Don

FLORIDORA NEWS

By Cathy Soehl - W4BAV

Hi Gals! Hope you had a nice Xmas and Happy New Year. First, I must make a retraction on item in last column; regret it was not W4BMC-"Big Mike" who worked all counties in U.S. (though she has about 2000). Item was picked up on the air as BMC was excitedly talking about it, hence the misunderstanding. Let this be an example; when you do not send in news to your P.C., items may not be picked up correctly or missed complete. Cooperate gals!

Many Floridoras were in "pitching" on the YLRL Anniversary Party. K4RNS-Marge and W4EHN-Betty were discussing some nice scores. Others were also in there, but K4RHL-Elle and W4BIL-Fran reported they just gave contacts.

K4CVR-Bessie is "back in the fold" with a new Swan 350. Was last heard in April, as took a trip last Summer to Wisconsin, etc., working a month in the hospital.

W4EHN-Betty reports she has joined the Eye Bank. Also K4RHL-Elle advises she and OM-Jake have also joined. Congrats, it is a fine cause. Betty is very happy to have received her 2nd QSL from Scotland.

W4GXP-Ruth, welcome to the Suncoast. She came from Conn. last March, purchased a duplex in Dunedin and is active on 6-meters with a Clegg 99er and 5-el. Cushcraft beam. Ruth says she is a senior citizen and interested in radio since 1949.

K4ZXS-Georgia is President of the Central Fla. Groundwave Club and is fixing a dinner for 70. Also she has been appointed Coordinator Communication Mgr. for N.E. Fla. Navy Mars. A real busy gal!

W2WUW/4-Margaret advises she has her home in N.Y. up for sale; so we look forward to having her as a permanent resident of Florida before long.

K4RNS-Marge added another souvenir envelope to her collection--from Germany, sent by son--Mike.



After a hot 6 meter transmitter hunt by the North Miami ARC, this nice group lined up for a shot. Aug. 21st. Who said Florida was flat? Left to right: Tracy WA4UJD; Al WA4FZV (kneeling); Mark WA4NHU; Mel WA4NHT, SWL; Dean, John WB4AHA; Hoppy WB4BND; Eileen WA4UNV; Alan WA4JTK. Earl WA4TVN, took this picture and incidentally won the hunt.

SUNCOAST ROVING REPORTER

By Cathy Soehl - W4BAV

Happy New Year to all and hope OLD KRIS brought each lots of ham gear. Hi! Now the holiday gaiety is over, we can settle down and get back in the "groove." Hi!

SPARC had their annual Xmas Party, Dec. 18th, with a covered dish dinner, games, gifts and a general good time. Also Suncoast VHF Club's annual party was hosted by K4EAC-Hilda, who we are happy to learn is back in her St. Pete home. Welcome back Hilda, and don't go away again.

SPARC member & Chairman Antenna Committee, K4KKK-Jim Clark, climbs about on roof tops, shimmies up poles erecting and repairing antennas. At the Nov. 4th meeting, we were amazed to learn it was Jim's birthday -- 83 years young, no less! What a man!

W4TAS-Hank had a one-man show of his paintings at a bank in Bradenton, Dec. 4th. Also understand he has a similar show scheduled in Ga. next Spring. Glad to hear Hank, XYL-Mary harmonics and dog made a trip in their new car to Columbus, Ga. for Thanksgiving.

W4VFI-Father Normand Hardy was moved from Ruskin to Sarasota. Has his tower, beams and gear set up and putting out a nice signal. Welcome, Father Hardy.

WA4VLG-Bill and WA4ZQZ-Dean worked WA5KDO-Duane, of Boerne, Texas, three nights in a row (Nov. 28-30) on a 6-meter band opening.

Glad to hear WA4GMT-Smitty is home from the hospital and doing well, though he lost a little weight. Also sorry to hear K4GHL-Ernie, of Orlando, joined the Silent Keys. Hope W4DWI-Hank is O.K., as last reports were he was in the Orlando hospital for observation. W4TXA-Mac, Brooksville, is home from Gainesville hospital and looks fine and eating the XYL-Helen out of house and home.

VBARC

By Dennis Yantz WA4YFY

Courtesy of Bell Telephone Company members and guests at the VBARC's Dec. 1st meeting saw a 27 minute film entitled "Seconds for Survival." The movie was an explanation of the communication links that tie our nation's defense teams together.

Because of the movie our business meeting was cut short. Present at the meeting was George Cook, W2-OBV, who has moved to Vero Beach and will probably join our club in the near future. We had several other guests who were mainly interested in the code and theory classes. Concerning the classes, we have decided to wait until after Christmas vacations are over before we start. We will

Bartow VHF Picnic

Over 300 hams and their families were present for the 10th annual VHF Picnic at Bartow this year. The weather was nice, the young 'uns had plenty of running space and the prizes continued to turn up about every 15 minutes.

This year's 1st prize went to W4VNF Richard Kight, of West Palm Beach, 2nd Prize to WA-4KYA Vivian Pic-St. Pete Bch, 3rd Prize to WB4DLT Andy John of Winter Haven. The lucky (?) winner of the junk box was K4AAI, Art Norman of Brandon.

To those who attended the picnic, we hope they enjoyed it as much as we did and hope they will join us again next year. To those who worked to make it a good time, our heart felt thanks, and especially thanks to Florida Skip for giving us a Very Big Helping Hand...

73 Lucky, K4EBO
VHF PICNIC CHAIRMAN

GRID LEAKS

It is disgusting to hear some of the "die-hard AM" boys blaming the sideband boys for having broad signals. There are grounds for some complaints but most of the trouble is due to a lack of understanding what their receiver can and cannot do. A little time out to determine what the term "pass band" of a receiver is all about would help things tremendously. Their constant belly-aching reminds me of a fellow trying to eat soup with a fork and blaming the trouble on the soup.

Onyx

probably run classes that are on a higher level so that conditionals or generals who want higher licenses can get them.

I hope you all got the Collins gear that you wanted for Christmas. All the club members join me in wishing you a happy, healthy, and prosperous New Year.



73 Dennis

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NET NEWS

FMTN
By W4AKB

W4SDR, Clyde, our Net Manager is still in the hospital. He suffered an accident in October and will probably be hospitalized for some time yet. We all miss Clyde on the air and are looking forward to hearing his cheery voice again real soon. His address is: Clyde Mashburn, Halifax General Hospital, Room 2216, Daytona Beach, Fla. Clyde wants the word passed along that Don WA4LBM's address is: AB Donnie B. Wright, AF 14968337, Box 1525, Flight 2238, Lackland AFB, San Antonio, Texas, 78236. He is doing fine in basic.

Prior to January 25, 1967 all Net Members are requested to send in their nominations for the 1967 Net Manager. These nominations should be addressed to: C.W. Schiffer, W4AKB, 7701 S.W. 53rd Court, Miami, Florida, 33143. W4AKB will not be a candidate for the 1967 nomination.

Our sympathy to K4DAX, Herb, on the loss of his brother in Texas. Herb had just spent vacation in Texas and had to return there immediately after arriving home.

During the month of November the following stations were NCS: WA4WYL, 7 days; W4ILE, 3 days; WA4COR, 3 days; WA4RQR 1 day; and W4AKB 12 days. FMTN needs more Net Control Stations. Any volunteers?

There were 26 sessions in November attended by 500 stations handling 408 formal messages. Average QNI was 19, average QTC was 15.7.

FMTN meets daily except Sunday

on 7230 Khz at 1700z or 1200 noon EST. AM, CW or SSB is permissible and all stations are invited. The primary purpose of the net is to handle formal traffic.

A very Merry Christmas and a Happy New Year to all. Hope to see you at the Tropical Hamboree January 21-22, 1967.

73, Charlie

SATN

The SATN has steadily grown since its conception in late July. We have settled down with a number of very fine regulars in the 1, 2, 3, 4, 5, 8, and 9th call areas.

SATN is pleased to announce the appointment of Walt, WA2ALV, Hudson Falls, N.Y., as assistant net manager. Walt is in the process of publishing another fine newsletter for the net.

Henry Stewart, WA4OWG, assistant E.C. from Polk County is now in the Navy stationed at Norfolk. Henry is heard frequently operating K4NCP the Navy MARS and Amateur station from Damneck, Va. He and Tom, W4FP, have had some fine ragchews after the traffic session. Another, Floridian who has moved is WA4PDM formerly of Miami. Gary is now WA5RAN in Denton, Texas, and is a regular doing a fine job with the 5 land traffic.

SATN is looking for N.C.S. on several different nights so if you can spare the time let it be known.

Sure would like to see all of you on 3950, 0330Z Monday thru Saturday, come and bring your traffic, 73.

Bill, WA4RQR

FLAMINGO NET NEWS

By W4EDP

Sorry that we had to miss last month's column, but it was one of those things.

The annual Flamingo Net barbeque went off without too much going wrong at the last minute, and a good time was had by all. The location was new this



"Calling all members of the Tropical Phone Traffic Net, this is W4SMK, Ft. Myers, Fla. The handle here is Ken. All members stand-by for roll call..." Ken is also EC (emergency coordinator) for Lee County and past president of the Ft. Myers Amateur Radio Club plus club correspondent for F.S. Don't miss his letter to the editor in the last issue of CQ.

(SKIP Photo)

year which probably accounted for the absence of some that usually come, but those that did come will be back next year as the location, the P.B.A. park, is a real nice one with plenty of parking space close to the BBQ area. The traditional ham was very good thanks to K4PFB the chief cook this year. All the folks that had a hand in putting on the affair deserves a big hand for their hard work. Financially, we did not break quite even, but that has happened before and we have lived through it.

During the barbeque the Net members held a meeting and elected officers for next year. So starting in January 1967 the officers will be: Activities Director W4MNN, Charles

Johnson; Assn't Activities Director Clarence Stinson WA4BPX, Secretary Kurt Lenkway WA4GGJ; for Treasurer John Morel W4RWT was re-elected, and for NCS Walt Kinney W4GJ was re-elected. Walt is a fine NCS and deserves plenty of credit for the FB job he does.

W4RWT, John, is going into the selling end of the organ business instead of the key tickling end and we all wish him well.

This being the last column of the year the entire Flamingo Net joins me in wishing all our readers a most Happy Christmas and Healthy and Prosperous New Year. Drop around on the net any Friday at 7:30 on 29.044 Mcs. your most welcome. 73 W4EDP.

FATT NET

Winter season and eighty meters are doing wonders for RTTY signals around Florida as almost all net members on FATT (Florida Amateur Teletype Net) pound out 100 percent solid copy. Again reminder: The FATT Net meets at 7pm (EST) EVERY EVENING on 3704 kcs and any legal shift will make NCS Rex, W4ZAG answer you with a warm greeting. Speaking of RTTY and FSK shift, W1AW now precedes its regular 850 cycle FSK bulletins with a tape run on 170 cycle narrow shift. We are glad to see narrow shift making a name for itself. Try 170 FSK once, just once, with heavy QRM and QRN and a 500 cycle filter and you will never want to return to 850 wide shift. It makes landline copy out of 75-80 percent copy wide shift. Also it uses less space on the crowded ham bands.

Rex, W4ZAB reports that last month he worked DX RTTY, YV1LK/5, Eva in Caracas, on ten-fifteen-twenty-fourty and eighty meters. ALL BANDS in ONE DAY Saturday November 12th. Congrats Rex.

Jacksonville now has THREE stations checking into the net, WA4JYS, WA4LPU, W4GAE, so now we have a

(Continued on Page 10)

RADIOGRAM

AMATEUR RADIO STATION

NO.	STATION OF ORIG.	CHECK	PLACE OF ORIGIN	DATE
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ZIP or ELSE ...! Says Post Office

The Post Office says, "It's the Law of the Land—effective January 1, 1967."

ZIP codes are the P.O.D.'s system for identifying, sorting and delivering mail, by use of coding. The P.O.'s Zip Master Plan is so comprehensive it eventually will vitally effect all U.S. citizens. It isn't a case of whether you like the ZIP system; it is a case of complying with the "Law of the Land" if you expect to get your mail without any penalties of delays in delivery or even extra costs. Cuss ZIP if you want; but don't try to ignore it. Unless you abide by ZIP code law, the P.O. makes no bones about it. A good share of your mail is going to wind up, either back in your lap or it will cost you more to have it delivered.

So, contrary to your 'druthers', come Jan. 1, 1967 the complete ZIP code regs into effect and as written, they leave no choice but compliance with ZIP use for all mails.

Another feature of ZIP coding is the adoption by the P.O. of new abbreviations for U.S. States: i.e. Alabama/AL; Alaska/AK; Arizona/AZ; Arkansas/AR; California/CA; Colorado/CO; Connecticut/CT; Delaware/DE; District of Columbia/DC; Florida/FL; Georgia/GA; Guam/GU; Hawaii/HI; Idaho/ID; Illinois/IL; Indiana/IN; Iowa/IA; Kansas/KS; Kentucky/KY; Louisiana/LA; Maine/ME; Maryland/MD; Massachusetts/MA; Minnesota/MN; Mississippi/MS; Missouri/MO; Montana/MT; Nebraska/NB; Nevada/NV; New Hampshire/NH; New Jersey/NJ; New Mexico/NM; New York/NY; North Carolina/NC; North Dakota/ND; Ohio/OH; Oklahoma/OK; Oregon/OR; Pennsylvania/PA;

Puerto Rico/PR; Rhode Island/RI; South Carolina/SC; South Dakota/SD; Tennessee/TN; Texas/TX; Utah/UT; Vermont/VT; Virginia/VA; Virgin Island/VI; Washington/WA; West Virginia/WV; Wisconsin/WI; Wyoming/WY.

(From FEARL (M) News)

The Age Of Words

It seems as though time honored words no longer have a proper meaning. A three letter word 'ink' used to adequately describe what is now known as writing fluid. For centuries the word 'cycle' (from the Greek meaning circle) conveyed adequate meaning. Now, out of the ether some wise acre grabs the word Hertz because cycle is no longer appropriate.

Did you know that:
A unihertz has one wheel?
A bihertz has two wheels?
A trihertz has three wheels?
The diurnal hertz consists of 24 hours?

One hertz consists of 360 electrical degrees?

Your air conditioner hertzes when room temperature reaches a thermostat-controlled level?

When bihertzing it is well to avoid heavy auto traffic?

The 11 year sunspot hertz should be on the upgrade now?

One hertz has two peaks, one positive and one negative?

Most women avoid pregnancy by watching their menstrual hertz?

The hertz is a good word but it doesn't do a thing for a sine wave?

Cycle, cycle, cycle -- that's plenty good enough for me.

Al Wilcox, W4ELR
Miami

TOP TWENTY TRAFFIC TAKERS

Each month we are happy to list the top 20 Florida traffic takers. We hope to see your call here next month.
For November 1966:

1. WA4SCK BPL 1038	11. K4BSS 175
2. WA4RQR BPL 663	12. WA4BAW 166
3. W4TUB 422	13. W4AKB 137
4. WA4TWD BPL 401	14. K4SJH 133
5. K4VFX 399	15. W4FP 132
6. WA4NEV 369	16. W4FPC 121
7. W4ILE BPL 299	17. W4BVE 96
8. WB4AIW 298	18. WA4IJH 91
9. WA4BMC BPL 254	19. K8LNE/4 90
10. WB4AJV 191	20. W4OGX 89



Merry Christmas

HAPPY NEW YEAR!

FROM

WA4DHU, W4FWI, W4GQI
W4IYT, W4JO and W4KUD—
the amateurs that get your
SKIP out each month.

A NEW ONE ...

By L.A. Connolly W4DVO

Oh there are thrills
We all desire
And with our hopes
We great aspire.

But tell me one better
Than hearing that rare sig.
Come back faintly but clear
Sending your call for all to hear.

Man you squirm and heave a
sigh,
DON'T TOUCH THAT DIAL,
Hey Bub
That's me, another notch
Just 49 more for DXCC Club.

HARMONIC RADIATION

(Continued from Page 2)

to our antenna system from our transmitter. Even though no TVI problem exists, enough harmonic energy could be present in the transmitter's output to produce the relatively high 2.5:1 reafing we have noted. Energy, which can't be absorbed (and radiated) by the antenna, is reflected back down the feedline where it produces the high SWR indication. The solution lies in reducing the transmitter's harmonic output content by using proper tuning procedures (lowest possible bias and grid drive to the final), proper circuit design (high C-to-L tank circuit ratio), and an adequate low-pass filter between the transmitter's output and the feedline.

Even expensive, commercially-built transmitters have been found to be guilty of high harmonic output. Your problem may not be in your antenna system; you might just be the victim of high harmonic output.

(LERC BULLETIN, CALIF.)

ANOTHER FIRST

(Continued From Page 1)

kHz at 7 p.m. (0000 GMT) All RTTYers in Florida and elsewhere are invited to report in with or without traffic. See announcement elsewhere about annual RTTY Society meeting in Daytona Beach in January.

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GIFT NO. 30	Contains 1/2 Bushel — All Navels	\$6.50
GIFT NO. 15	Contains 37.5% of a bushel All Navels	\$5.95

Prices quoted include delivery charges anywhere in U.S.A. except Alaska, Hawaii, Arizona and Canada. A perfect gift for any occasion. Reference: Sterling National Bank of Davie.



SCM's CORNER E/F

BY "HAM" K4SJH

SO - WHAT ELSE IS NEW?

By the time you read this we will probably know who the new Section Communications Manager is. This will be my last column - as SCM - honest. No more griping and pushing for better and better results - even though it seems as if we have been doing fine - which we have. With so much competition throughout the nation the SCM just cannot afford to sit back and view with satisfaction - and neither can the active members

Unusual Ham Contact

By Leo R. Scagliozzi, W4VLT

In the corridors of time there has been many unusual ham qso's that make for an interesting anecdote worth retelling. This such story concerns a former newspaper man who wrote a syndicated column a quarter century ago. The New Jersey man was enjoying a 28 megacycle phone contact one night from his boat anchored at Atlantic Highlands. Upon completion, a blinding searchlight from a craft several hundred yards distant lit up his small boat. Immediately, the ray of light was broken into dots and dashes signing a W5 call. The news scribe went back to the W5 on 10 meters resulting in probably the first combination audio and visual qso ever to be made.

The Jersey ham then rowed over to 103 foot Government type vessel for a personal chat and learned that the ship was a former aircraft rescue type tied up at the Highlands prior to shipping out for geological diving experiments in the Gulf of Mexico. The sea-going ham had equipped the vessel with a Collins transmitter and a Breting receiver capable of only 20-40-80-meter operation. The operator apparently was tuned into a harmonic emission of the 10-meter signal.

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of the section. While the Champs are resting on their laurels the contenders are building up their strength and suddenly the Champs are dead - long live the Champs - and it's all over but the shouting.

You say we have not been letting down? Well now, let's see. It is true that we seem to have maintained approximately the same level as last year - and the year before - and the year before that. Is this enough? While Ham radio has continued growing in this section - while there are more check-ins than ever before on our traffic nets - while we have more appointees than ever before and - while our emergency preparedness seems to be at an all-time high - it does seem that everything is going for us all the way. Is it really? Why is our reporting status so poor - in spite of the fact that your SCM goes to the trouble of sending reminders to delinquent stations and toiling far into the night trying to devise means of persuading stations to report their activities - FOR THE GOOD OF THE SECTION. No pride perhaps?

This tirade is not directed at everyone. Not just a few of our number have been most faithful in fulfilling, what I consider to be their obligations to the support of amateur radio. Many, for reasons which they fail to explain are just not interested even though they may be actively engaged in nets, etc.

I sincerely hope that with the election of a new SCM, radio amateurs in this section will take a look at things and perhaps see their way clear to not only be active but to also report their activity so that the most good can come of it in the support of our lobby.

By this time you probably figure that I am quite bitter about the whole deal. Not so. I've had a wonderful time. It has been a great experience. I have made many friends and, of course, a few enemies - who doesn't. I wouldn't have missed it for the world. I would like to thank everyone, clubs and individuals who have been more than just helpful. I will never forget it.

To everyone - thank you - very much. CUL.

NETS

(Continued from Page 8)

direct line into NE Florida. Some of the newer members of the net that have joined in the past month are: WA4JYS Ken and WA4LPU Buddy in Jacksonville, K4EBE, Ed in Bartow, and WB4BCZ Marvm in Orange Park. Nice to have these cities represented.

For a complete listing of FATT stations and cities, see last month's Florida SKIP. Here's wishing you and yours a Merry Christmas and a Happy New Year. ---- and C U tonite on 3704kc. 73 RB.

Reflected And Directed

There are delights in childhood, of course; but one of the joys of being an adult is watching a child's mind in action. Many of today's child-raising parents grew up to maturity in an era of television; they can hardly remember what it was like before TV entertained them. The "commercials" are so taken for granted that it never occurs to them that they are accepted as part of the program. And how are they introduced? Why, naturally, as a message from Rusty Spike, the slinking man's soke." It has to be a message. We were really shocked when our little guy - 7 years old - referred to a "message" that would come on next! To him, "message" means a "commercial." And frankly, to many amateurs, a message means even less.

In amateur radio, a message is not simply a piece of communication. It is evidence, when properly handled, that the communication is effective. All the blating and bleating of our so-called "Phone nets" does not change the fact that messages transmitted by amateur radio have a very thin chance of reaching the destination in the exact form originally written. Some messages - and not a few - are improperly put together in the first place. Many amateur radio operators couldn't write out a message in standard form if the directions were printed on the pencil. The word check is omitted; and once the error is committed, any accuracy in word count is lost forever. It follows that without a word count, words get lost - and soon the message is a garble.

Who wants to deliver a garbled message? Makes the ham delivering it should like an ass, sor of? You betcha. So hams who might get involved in message handling get disgusted - and treat traffic like poison ivy.

QFN REPORT



BY
BOB
BLUMBERG
WA4OHO

Activity on QFN is on the upswing. November statistics show that 574 pieces of traffic were handled for a rate of 0.485 messages/minute - a good efficient rate. This efficiency is due to the increased amount of traffic which has been flowing into Florida recently. W4BVE reports that his Viet Nam traffic via MARS will soon be added to this flow.

For those going to the Miami Hamfest: There will be a breakfast for QFN members. This is an excellent chance to meet the guys you talk to every night. As of this time, there are no further details.

QFN is extremely happy to have K4-KDN back home after a stay in the hospital. We also welcome back WA4BAW who has given the net quite a boost with his assistance. Kudos to WB4AJV, W4COE, W4FPC, WA4NBT, and WA4SCK for a very excellent job of representing Florida on the regional nets. There are still some unfilled opportunities for assigned representatives for these nets. Anyone interested please ARL 7 W4BVE.

Everyone is happy to see that new members WA4MRK, WA4TXV and WA4YAK are taking a very active part in net activities.

A reminder from K4SJH: It is time for all QFN members to think about a new net manager from Eastern Florida to replace W4LUV who recently resigned. Candidates will be voted upon by a secret mail ballot.

Congratulations to W4ILE, an active QFN member, upon his appointment as Route Manager.

Remember to get all QNS reports into W4BVE as soon as possible.

The increased amount of traffic on QFN requires stations from every city in Florida to check in. We are waiting for you on 3651 kc every night at 2330 and 0300 Z.



**USE YOUR
ZIP CODE**

No matter how highly developed are the military facilities - radio-teletype, facsimile, etc., - there has to be an orderly format for the handling of messages. The same is true of Civil Defense. Looking at the responsibility of amateur radio in these two areas, can we neglect careful training of every amateur in message handling? Isn't it about time that we ask the character sending us a message "What Check?" "What time?" And if the text doesn't ring out with the check, ask him to repeat? Let's get the message - and get the one the originator composed!

73, George Goldstone, W8MGQ.
(Auto-Call K0NL Editor)



ARMY MARS

By AD4VWY (Will)

Word has been received that Tomi, XYL of Bob, AA4JZ, was scheduled to undergo surgery Dec. 8 in the J. Hillis Miller Medical Center, University of Florida, Gainesville, Fla. 32601. Her room is either A 310 or A 301. Our prayers are with her and Bob.

Anyone interested in copying CW, just listen on 4025 kc at 1500Z on Saturdays, when tapes will be run at 30, 40 and 50 wpm; or Monday, Wednesday or Friday evenings on the same frequency at 0300 Zulu. CW will be sent at approximately 10, 15 and 20 wpm. However, only Florida Army MARS stations are permitted to check into these nets.

AD4ESL reported she is expecting the arrival of her granddaughter and parents from California. It appears that a somewhat earlier arrival was a complete surprise.

AL4BOM would appreciate receiving three 6SK7's if you can spare them.

Happy Holidays to all.

WHO INVENTED HEISING MODULATION?

Up to a few days ago, I'd have said that question was in the same category as "Who is buried in Gran'ts tomb?" Then I ran across a passage in an article about raditelephone communication from British aircraft in the early part of World War I. This was in 1916. Here's the quotation, from an article by W. F. J. Harvey: "Indirect control of radiation, achieved by placing a microphone transformer in the grid of the oscillating valve, was abandoned in favor of choke control, in which modulation is applied to the anode circuit of the control valve." Translated into current American terminology, that reads as if it were Heising modulation. Perhaps some of our British readers can cast further light on this matter.

(From COLLECTOR and
EMITTER-W5JKK)



Recently your SKIP editor was thrilled to hear signals from "deep space" (millions of miles out) coming thru this hi gain UHF beam. W4IYT received a personal tour thru the NASA tracking station near Ft. Myers and was permitted to take this photo. The exact DB gain of this antenna is unknown (to me, anyway) but it was receiving signals from near the sun with plenty to spare. 3 or 4 amateurs work at the station and receive visitors from 10 a.m. to 4 p.m. The station is located about 4 miles south of Ft. Myers just off U.S. 41 about 3 blocks. Stop by and see what your tax dollars are doing.

(SKIP Photo)

New Radio Council

Plans are underway to draw up final plans for the Council. The next meeting will be in early Feb. 1967. All radio clubs are invited in Dade and Broward to participate. For details contact K4KRN of the North Miami ARC or W4LVV, Dir. SE. Div. both of Miami.

A meeting was held Dec. 15th in North Miami to discuss the formation of a South East Area Council of Amateur Radio Council of Amateur Radio Clubs. Officers from Broward, Coral Reef, Dade, and South Miami were present.

Complete Construction Plans Given For Novice Radio Station

Many beginners in amateur radio say that existing handbooks and magazine construction articles present equipment that is either too complicated for the novice or do not include sufficient construction details.

BUILDING YOUR AMATEUR RADIO NOVICE STATION, by Howard S. Pyle, W7OE, is the first construction manual for building an amateur novice radio station with the complete details many people have been looking for.

Nothing is overlooked in building the station from scratch to the actual on-the-air operation. Includes drilling and cutout templates for the chassis and panels which may be fastened to the chassis and panels and used as a guide for drilling all the necessary holes.

The professional - appearing transmitter and receiver cost little but will carry a relatively high resale value. They have been thoroughly tested for construction ease and for outstanding performance on the air.

While the equipment has been specifically designed for, and meets all the requirements imposed on a novice amateur radio station, it will also serve the General-Class amateur as well.

As a finishing touch to the projects, a complete rollaway ham shack is fully described for those with limited space.

Copies are available from electronics parts distributors and bookstores throughout the country, or from the publisher. Howard W. Sams & Co., Inc., 4300 West 62nd Street, Indianapolis, Indiana 46206.

BUILDING YOUR AMATEUR RADIO NOVICE STATION, Catalog No. ASP-1. Size: 128 pages, 8-1/2 x 11". List Price: \$3.50.



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VHF EASTERN FLORIDA

By Bertha Farr Eggert
WA4BMC

During late November and Early December, the six meter band has been opening, maybe for a couple of hours during the day, and for 15 to 60 or more minutes in the evening, according to Al, WA4FZV and Zelma, WA4MKE, in Miami. Louisiana, Texas and the lower east coast of the USA, along with north Florida, have been worked, WA4ZPN, in Pensacola was worked Nov. 28th, at 8 PM.

The VHF TN has 3 NCS, WA4ZEV, K4JUT, and WA4FZV, and two stations from outside of Miami check in; Harley, K4ZDV from Clewiston, and Jerry, K8-AKQ/4, from Pompano Beach. He is running a Shawnee, with a 10 element beam up 70 feet, and he is putting a loud signal into Miami. If those with low power on 6 meters would improve their antennas, they would find that their low power would get them out much further. Those who work the Mars nets should not forget the Ham Bands.

WA4QWD has been setting up a Ham station in the various shopping centers in the Miami area, and been picking up 40 to 50 pieces of traffic at a time, some of which finds its way to the VHF nets.

Don't forget the top end of 6 meters. Use it, provide occupancy for this part of 6 meters. Thank you, Al and Zelma for such a nice report. It is just exactly what I wanted.

Ken, WA4WZZ, from Lakeland, reports that there are a large number of VHF operators in the Polk county area. The Polk county net meets on Wednesdays at 2000 est, following RACES net on 50.4. Ken also meets AFMARS Tuesdays, Thursdays and Saturdays, with information net on Sundays.

Monday, nets on 2 meters, from Broward and Martin coun-

ties; Tuesdays from Brevard county; and Wednesday from Arcadia and Palm Beach County. All these are on 2 meters, between 145.150 and 145.350, 8 to 9 PM, est.

Bertha Farr Eggert, WA4BMC

It Happens Every Day

Just finished listening to a guy who blew his 4th set of 24 silicon diodes in his high voltage supply. He was actually in the process of deciding to add one additional one to each strong when the things let go.

For the past hour and a half he had been getting suggestions as to what to do. When someone suggested that he parallel the diodes with the recommended capacitors and resistors he said there was not enough room on the small board to accommodate them. Seems he had his mind made up. Seems the diodes did too as the next time he came back it was without the linear!

The thing that bugs me is why the average ham thinks he knows more about the product than the manufacturer. From now on this fellow will tell the world that silicon diodes are lousy. He knows he's used them by the dozen.

Yes, I know a lot of you are getting by without the seeming unessential extras - all I can say is you are lucky. Sooner or later one of those silent little devils is going to squat during the reverse portion of the cycle - and it takes only one. It's then too late to do much except start over and this time follow the directions.

Onyx

New Route Manager

Regis K. Kramer (REG) W4ILE hails from Lorain, Ohio. Born on Valentine's Day, 47 years back yonder. Started "messin" around with crystal sets while in grade school.

First licensed in February 1935 as W8NJA. First XMTR was a 59 TRI-TET osc. running all of 5 watts input using a "B" eliminator as power supply. Receiver was homebuilt version of the National SW-3. "Graduated" to 45 HARTLEY running 15 watts and an off-center-fed HERTZ that produced more thrills than any rig since.

After high school graduation REG ran into a little tough luck and spent the next couple of years operating with a hospital bed side rig. It was during this time that he began studying for commercial tickets.

Obtained 2nd phone and 2nd telegraph in 1939 and worked in GREAT LAKES area communications on ship-board and shore stations 1939-42. Received 1st phone and 1st telegraph in 1941. Met his wife-to-be while working in PORT WASHINGTON, WIS., ship-to-shore station and was married in Dec. 1942. Held W9-VKQ and operated with a homebrew version of the then popular, STANCOR 10-P.

Moved to Florida with his new bride in January 1943 and worked 9 years as radio opr with EAL. Received post-war W-4ILE in '46 and was on air with homebrew band-switching 807's with folded dipoles for each band 10-80. Won 1948 for each band 10-80. Won 1948 E. Fla SS with this rig. "Sold out" in '51, went into RADIO-TV servicing as hobby using EICO kit equipment. Discontinued servicing in 1956 only to become a "frustrated" guitarist and, along, with his "LEMON SQUEEZERS QUARTET" ...REG says this was almost as much fun as hamming.

For the past 15 years worked for AERONAUTICAL RADIO INC., (ARINC), Watch Supervisor for the past 12 years. Got back on the air in Feb. 1966 working DX for the first few months. Has applied for DXCC, 114 worked, 106 confirmed. Began working the traffic nets in May. Is ORS OPS OTC RCC CP-35 WAS WAC and ARRL member. Waiting for his DXCC and BPL medallion.

REG likes contest activity and thoroughly enjoys traffic handling. Presently on air with Collins 32S-3, 75S-3B, 312B control unit, TRI-BAND beam, 40 ft. EZ-WAY tower, HAM-M rotator and 80-40 broad-banded inverted vees.

REG and ANGIE have 5 children, 3 boys, 2 girls. Two older boys in the service, one a MARINE SGT. and the other NAVY SN. REG has resided at the same QTH for 24 years now. Hoping some day to have a KW linear and has hopes of getting active in RTTY, VHF, and obtaining some emergency power.

Ham Ingenuity

By Leo R. Scagliozzi, W4VLN

Pre-World War 2 hams were pretty ingenious fellows and when the occasion demanded it their ingenuity came to the front. When a New England ham was faced without a transmitter at license renewal time he resorted to the unusual. Rather than go to the expense of constructing even a small rig, the operator made use of a monitor, a piece of gear extremely essential in the ham shack.

Removing the grid resistor he replaced it with a five-megohm unit, tied into a 40-meter and proceeded to contact three local stations, the amount necessary to renew his "ticket."

It's A Fact

On Linear amplifiers. Stick to the tube manufacturers specs. You can not simply soup up your linear by raising plate voltages, much is involved. In order to be held linear or on the line as plate voltages go up other voltages must be adjusted to hold the tube on the linear portion of the characteristic curve. As you deviate from this curve the distortion products get greater. Stick to the mfgs specs. ICAS...Intermittant Commercial and Amateur Service, cheaper in the long run and much better copy all the way around. Not enough power? Double up the tubes, or go to the next higher rated tube unlinearity causes all sorts of evil things.

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SPARCYLS Xmas Party

By Cathy Soehl - W4BAV

SPARCYLS (St. Petersburg Amateur Radio Club YLs) have one major activity every year, a Xmas Party, the first Sunday in December, for all licensed YLs in the area.

This year it was held at the QTH of K4WXS-Lee Kanarian, Sunday, Dec. 4th. The gals gathered at 2 PM and there followed an afternoon of much "yacking", interrupted only by partaking of the many "goodies." Then there was the distribution of the exchange gifts; each girl having brought a present not to exceed \$1.00 value.

At 4 PM the party broke up and all went reluctantly on their way, having enjoyed a wonderful get-together. Everyone is looking forward to next year and we hope those who could not be with us will come next time.

Those attending were: W4T-DK-Naomi, K4WXS-Lee, WA4-EDL-Nancy, of St. Pete; W4B-II-Fran, K4RCQ-Elsie, of Clearwater; W4GPX-Ruth, of Dunedin; W4WPD-Shirley, of Tampa; W4BAV-Cathy, of Sarasota; WA4KYA-Vivian, of St. Pete Beach; W4HRC-Little Bo and Marie Henry (Mascot), of Jacksonville.

Florida Traffic Guide

Listed below is a complete active roll call of the Novice Hurricane Net. Please clip it out and keep it with your log. Each month we hope to publish each Florida net which can be clipped together and used as a FLORIDA TRAFFIC GUIDE. Other net managers are hereby requested to submit a complete active roll call to SKIP for publication. OK? Tks. AC.

NHN meets Saturdays on 7165 kHz at 1930Z.

WN4DIX/4	Daytona Beach	WN4CIE	Mulberry
W4UHF	Tampa	WB4BZO	Clearwater
W4MSH	Palmetto	WN4DFR	Indianapolis
WA4WEB	Tampa	WN4CED	Jacksonville
WA4ZQI/4	Daytona Beach	WB4DBZ	Dunedin
WN4DAF	Miami	WN4DRY	Miami
		WA4YAK	Tampa, NCS

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By Jim Wilson,
W4GDK, NØWCK

Navy MARS members in all three Florida Areas were pleased with the visit they just had from Chief Earl Crawford, the new Director of Navy MARS in the Sixth Naval District. In Pensacola, St. Pete, Ft. Lauderdale and Orlando he met with large groups of members for whom he had a lot of interesting information. We look forward to good progress under his leadership.

Throughout Florida we are encouraged by the excellent cooperation of our members in the handling of traffic. The reports for November indicate that our traffic total for the month will approach 1500. A large number of these are to and from overseas with many other announcing safe arrival of trainees at various Naval Training Centers.

In N.E. Florida, Area Coordinator Georgia Denman NØZTC has arranged regular meetings the first Tues. of each month at 0100Z in the Naval Reserve Training Center, Livingston and Parramore St., Orlando.

At the special meeting for Chief Crawford, among those present were Dep. Coordinator Hayes Warmath NØFUM, James Leavy NØEQW, Chief of Sec. Two N.E. Fla. Georgia thanks all who attended and welcomes aboard as new members NØHJG, NØHLE and NØHLN.

We will be glad to give you additional information. You may address this correspondent at 1204 Avocado Isle, Ft. Lauderdale, 33315 or contact W4GDK on the air.

IT'S A FACT

Users of the Heath Monitor scope, Beware, check the SWR ahead of the scope... Mine puts a good size lump in the line... Correct by cutting a tuned line from Xmitter thru scope to

14 FLORIDA SKIP, January 1967

Peak Envelope Power Measurement

Up until now the measurement of PEP output has been a complex operation. If you have the money, you can make the measurement very simply. Just buy a Bird Model 4311 "Thru-Line" Directional Wattmeter. With it, you can read either the steady-state (CW) power or, by just depressing a button, the instantaneous (peak) power. Of course, if you have a radar transponder, it'll measure the peak pulse power output, too, just as readily as your amateur SSB PEP RF output.

The basic instrument costs \$575, with the plug-in units for various power and frequency ranges running from \$50 to \$75 each.

If you don't want to spend that kind of money, perhaps you'd like to make the measurement the hard (but less expensive) way.

For this, you'll need an oscilloscope with direct connections to the deflection plates, a co-ax "T" connector, a variable capacitor, and a Waters RF wattmeter. The latter may be obtained from "THE BOOKSTORE" at a quite reasonable figure!

Here's what you do. Connect the output of your SSB transmitter through the co-ax "T" to the Waters RF wattmeter, which constitutes a 52-ohm non-reactive load. Off the "T", run a lead through a variable capacitor to the "hot" vertical deflection plate of the 'scope' (the other plate is grounded). Fire up the transmitter and the 'scope' and let them cook to stability. By adjusting the variable capacitor, which in series with the internal capacitance of the 'scope's deflection plate, forms the variable element of a capacitive voltage divider, you can set the vertical dimension of the scope's pattern to any desired value. Set the SSB transmitter on CW and adjust it for full power input. Now, QUICKLY adjust the capacitor to give a nearly-full-tube-face deflection on the 'scope. Then QUICKLY note the RF power output. If you do this fast enough, you may not ruin the tubes in the final stage of your transmitter! Now you may want to do a bit of juggling to make measurements more easily read. You may want to fiddle with the transmitter power output to make the RF wattmeter read a round number, say, 200 watts; you may want to fiddle with the variable capacitor to make the 'scope tube deflection a convenient spread on the graticule, say, two inches for 200 watts. You're now ready for business. Forget the RF wattmeter but don't forget to turn that transmitter back to the SSB mode before it burns up! Talk into the microphone in your normal manner and with the gain control set at its usual position. Note the 'scope face. If you calibrated it for two inches for 200 watts, that's 100 watts per inch; so you can read the PEAK power by noting how high the waveform pops up on voice peaks. This takes care of the PEP output situation, but leaves the PEP input power still a matter of uncertainty.

If you're really dedicated and have a dual-beam DC oscilloscope with inputs and all following circuits very well insulated from ground, you can measure the PEP input fairly simply. First you calibrate one channel of your 'scope as an ammeter by reading the IR drop across a small resistor in series with the final amplifier's plate DC power lead; toss in a DC meter as your steady-state standard. Then you calibrate the other channel as a voltmeter by reading the drop across a section of a voltage-divider hooked across the DC plate supply to the final; use a DC voltmeter as your steady-state standard, of course. Now talk into the microphone as before. Note the peak of the 'scope ammeter reading with one eye while noting the valley of the 'scope voltmeter with the other eye. This is no mean accomplishment, but if you can do it, you can compute the instantaneous DC power input. You've got it made!

(September COLLECTOR & EMITTER)

SWR bridge.... Especially in the VHF regions.... 10 thru 220.

* * * *

Duplex operation is fun but is only permissible above 51

mc.... Duplex and AØ are the same. Caution here is required, if you work cross band 6 to another frequency be sure both stations are above 51 mc or break the carrier between transmissions.

160 Meters

By Dave Hayden, W4WHK

You say you can't get on 160? Try the rig described by W4-MLE recently in SKIP. You say "I can't get an antenna up for that band." Not true! There are several simple schemes for the average city-lot ham: 80 meter antennas with the feeders tied together, single wire quarter-wave inverted L types, either of these fed against ground. Almost any piece of wire, even a short one that will take power will radiate, perhaps not as efficiently as a long one, but it will work. A standard pi-network or series feed will do an effective job with either of these types.

One of the simplest antennas for 160 is a single length of 300 ohm ribbon shorted at its far end and fed directly with 52 ohm coax. One side of the line is fed directly with the center conductor; the other grounded to the braid. Run it from the shack any way you can, but try to get as much of the last 50-130 feet (the bulk of the current radiating portion) as vertical as possible. A slanted antenna will work ok, but a vertical section as long as possible is better. Use a good ground to the transmitter, preferably a water pipe system.

The stations that really get out on this band, DX and country-coverage wise, employ either inverted vees with the apex up a minimum of 60 ft. (W1BB, DX leader on 160, has one up 90 ft. over salt water), or verticals with extensive ground and radial systems. My antenna is a 3/8 wave Marconi fed against a good ground, with the center 70 ft. portion vertical.

This band has been slow to come around this season, and still has not reached its peak. However, all call districts have been worked from here during October, and on some nights sigs from all areas are surprisingly strong. "First night" tests for DX, described in recent issues of QST and CQ, will give you an opportunity to try your hand at some really good contacts. If anyone needs a check on performance, check with me around 0030-0400z, 1801-1805 kc. My total of 17 countries and 38 states proves that QRP 160 can be fun. Come try it! 73 Dave

HAMBAR

This column is FREE to any licensed Radio Amateur who is a subscriber to Florida Skip. Limit \$ per year. Additional \$1.00 each. Non-subscribers and non-amateurs \$1.00 each up to 10 lines. All listings are cancelled each month. If your listing is not moved, it will be necessary to relist the following month.

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FOR SALE: Elmac AF-67 \$45.00. B&W 426 75 ohm low pass filter \$12.00. Knight grid dip oscillator \$15.00. Gonset Tri-Bander, 6 v mobile converter \$5.00. Palco 6 v mobile power supply \$10.00. Command receiver and transmitter (unmodified) 7 mc. \$10.00. Willship collect or pick up. George F. Reeves WA4TNU, Box 6, Williston, Fla. 32696 Phone (904) 528-4761.

WANTED TO TRADE: HT-44 with a.c. power supply on a factory wired Ranger II and a 160 thru 6 meter receiver. Will haggle up or down for swap offer. Wendell Merck WA4NBT, 623 Oriole Dr., Lakeland, Fla. 33803

FOR SALE: EICO's best signal generator model 315 range 75 kHz to 150 MHz 1 percent accuracy possible only \$25.00. Jim Patrick K4GRX, 3700 NW 22nd Ct., Miami, Fla. 33142. Phone 633-7010.

FOR SALE: NC-190 receiver excellent condition \$135.00. Jim Hagan WA4GHK, 896 Port Malabar Blvd., Palm Bay, Fla. 32901. Phone 723-9145.

FOR SALE: HEATHKIT HW-12 with Dynalab conversion 75-40-20 with manual \$95.00. HA-14 KW compact linear \$95.00. HP-14 linear mobile power supply \$86.00. All kits lab wired and tested, never used. Wanted: E-Z way Galvanized crank-up and fold over with ground post 25-40 ft. (RBX-40 type). Must be A-1 condition and right price. Walter Bickmeyer K4NI, 137 Bahama Blvd., Cocoa Beach, Fla. 32931 Phone 783-1585.

At times a second-handed carmaker you realize how hard it is to drive a bargain.

FOR SALE: Tech craft 2 meter transmitter \$40.00 power supply \$15.00. S-53 receiver \$20.00. RME-6900 receiver \$200.00. 2 meter receiver rack mounted \$30.00 power supply \$20.00. ARC-3 xmitr 2 meters \$15.00. 6 meter converter less xtal 28-30 mc IF \$10.00. HE-45B HE-61A VFO \$90.00. Capacitor checker \$15.00. 12 volt auto radio \$10.00. Mike \$8.00. Dowkey Relay \$10.00. Misc parts and tubes. WANT: SX140, HT-40. Ron Livernois WA4EJP, 17131 NW 46th Ave., Carol City, Fla. 33054 Phone 624-3514.

SALE: Complete Collins station 32S1 xmitr, 75S3 receiver, 312B4 control console with phone patch, Astatic mike, Mosley TA-33, E-Z crank down tower, mind condition. Complete accessories, cost \$1900.00 sell for \$1200.00. M Heuvelmans W4GJK, P.O. Box 130, Rt. 1, Stuart, Fla. Phone AT 7-0347.

FOR SALE: NC 300 with 100 kc marker — \$110.00 (or trade). 250 watt all band — AM xmit-IN metal cab — \$50. 1 KW all band final and all components for pwr supply in blue Bud cab — \$50.00. An ARC-5, 2 meter rig with mod, and pwr supply and Tecraft conv. \$50.00. Misc. xfmrs, varconds, micas, parts, tubes etc. I have it at your price. W4OLW, 6444 N.W. Miami Place, Miami, Fla. 754-8540, Russ Gillespie.

FOR SALE: B&W 5100 wired for SSB. Only \$65.00. Kitty LePine W4PPQ, 7673 W. Tropicana St., West Hollywood, Fla. 33023, Phone 898-6265.

FOR SALE: One 3-400 Homebrew linear, cpt with power supply on 12 inch pack panel — GG 1000 watts \$125. 150 watt am 20 meter transmitter, VFO, power supply hi level plate modulation \$25.00. HT-19 hallicrafters 250 watt c.w. and FM transmitter 80 thru 10 meters, VFO built in power supply \$60.00. Pair new 4-400's \$40.00. Heath HW-12 with homebrew a.c. power supply \$100.00. ART-13 unconverted \$25.00. Multi-Elmac PMR-6 with 6 v.d.c. supply \$12.00. Jim Edris WA4TBM, 20520 Jaranda Road, Miami, Fla. 33157 phone CE 5-8896.

FOR SALE: HT-37, Drake 2A with cal and Q mult. TH-4, 40 foot telescopic mast with TR-44 rotor. Package deal \$400.00 or separate. Charles Gilman WA4CIK, 1421 Venetia, Coral Gables, Fla. 33134 phone HI 4-0418.

Don't make the road even harder by magnifying your troubles.

FOR SALE: HRO-50 R1 abcdefghj coils-extra C for Conv. to 15 band-spread. Collins 500 kc filter, Q-mult. installed. Needs minor work \$150.00. Del up 200 miles. E.W. Ljongsquist W4DWK, 1655 Meridian Rd., West Palm Beach, Fla.

WANTED: Service manual for Hallicrafters SX-28 receiver. Ralph Bidle WA4BGZ, 1839 — 79th Ave. North, St. Petersburg, Fla.

FOR SALE: Collins 32V3, HAI Keyer and Vibrokey, 4-1000A's, sockets, chimneys, Dumont scope; Telrex TM-30C; 24-hour clock; 2 mtr gnd plane, 75A4 late and mint, selection of filters; D-104 PTT mike, new 10D mike, TS175U, AR-2 speaker; HV condensers etc. Dan A. Summers K4TML, 1712 SE 14th St., Ft. Lauderdale, Fla. Phone JA 4-0918.

FOR SALE: SR-150 transceiver, a.c. supply with speaker, d.c. supply, station mike and stand, mobile mike and speaker, Hustler mast and bumper mount with 75, 40 and 20 resonators all for \$550.00. R. W. Fanus WB4CPR, 411 Hibiscus St., West Palm Beach, Fla.

FOR SALE: Knight T-150A transmitter 80 thru 6 meters VFO controlled 150 watts \$90.00 or best offer. Heath

VFO HC-10 80 thru 2 mtrs \$30.00. Ameco 6 meter converter model CB-6 \$10.00. Don & Judy Hayman WA4-JBI/NQS, 6301 SW 93rd Ave., Miami Fla. Phone 271-94401.

FOR SALE: Eico Voltmeter model 221, Eico signal Gen model 324 never used, Heath tube checker model TC-2. \$100.00 for all. Rick Rutan K4BNE, 4529 Beach Dr. SE., St. Petersburg, Fla. 33705

WANTED: Clegg Zeus transmitter — 6 and 2 meter repeater stations in Florida, planned or active. Frank Butler W4RKH, 323 Elliott Road SE, Fort Walton Beach, Fla. 32548 Phone 244-5425.

FOR SALE: Automatic transmitter for perforated tape (Wheatstone) Mc Elroy type XTR-442 including keying head, electronic keyer drive motor with speed control and a few perforated tapes. Good for learning the code or building up your speed \$50.00. Earl W. Carsner KOACG, 1532 NE 1st Ave., Miami, Fla. 33132.

A clear conscience is to the soul what health is to the body.

WANTED: Galvanized tower. EZ-Way crank up, tilt over with ground post. Model GPRBS-40G or GP6046G or something equivalent to or better than these models. Charles E. Montross WB4DRL, 3324 Mayflower St., Sarasota, Fla. 33581. Phone 924-2223.

FOR SALE: DRAKE 2-B perfect \$179. Drake 2BQ Q-multiplier-speaker combo perfect, \$19.95. Viking Ranger with PTT and vernier tuning excellent \$79.95. FOB. Ansel E. Gridley, P.O. Box 1294, Sarasota, Fla. 33578

FOR SALE: Drake TR-3 RV-3 homebrew a.c. supply all for \$450.00. Galaxy III and a.c. supply \$250.00. Dick Tesar WA4WIP, 2666 Browning St., Sarasota, Fla. 33577. Phone 958-8271

FOR SALE: ALL HEATH test equipment — Battery Eliminator, 6 or 12 v.d.c. at 15 amp. \$22.00. Condenser Checker K-C-3 \$12.50. Vibrator tester, VT-1 can test any vibrator made with meter \$9.00. Condenser substitution box CS-1 (.1 to 00022 in 18 steps) \$5.00. Resistance Substitution box RS-1 (15 ohms to 10 megs in 39 steps) \$6.00. VTVM V7 \$15.00. All with manuals. Andy Clark, W4-IYT, 41 Lenape Dr., Miami Springs, Fla. 33166. Phone 888-3874.

BACK ISSUES of Florida Skip now available, fir some, first serve, for a limited time only. Full 12 issues for only \$2.00. Individual copies for \$.20 post paid. Write Florida Skip, Box 501, Miami Springs, Fla. 33166 now. Specify the year and/or the months and we'll get your copies of the Florida Skip out to your QTH pronto.

WANTED: Instrograph, or equal, with tapes. Advise type, condition and price. Hal Williams W4YP, 9880 Caribbean Blvd., Perrine, Fla. 33157 238-2197 evenings.

SEND FOR YOUR 1967 SKIP CALENDAR—FREE TO SUBSCRIBERS. PLS. SEND S.A.S.E.

COMPLETE CW PHONE RTTY STATION: \$474.00 Read on. 30 ft. Rohn tilt over tower, ground post brkt, hinge base, winch, cables all hardware. Mosley TA-33 Jr beam WVG vertical, two rotators, piggy back all cables, control, new Apr. 66. Antenna selector unit for 6 antennas with relays, par metal cabinet model ER-223. 43-1/2 inches on swivel casters. 2-SX-28's receivers with speakers, matched output for RTTY. Johnson Viking II with VFO, adjustable keying input for RTTY. Eldico low-pass filter model TVL-KW. 2 mikes with selector switch for 5 mikes and phone patch. Jones micro Match Model 261. AC line unit, AC volts and cycles, large Field strength meter, panormic adaptor model BC-1032B. Direct reading freq meter model LP constant one volt output dumont scope model 224A. Large 24 hour clock 17 inches. Press wireless type converter will copy any shift any frequency, normal reverse, space, mark, controls on panel plus meter. Model 15 page printer, table and power supply, printer has electronic margin indicator and paper rewind. Teletype keying unit for reverse or normal keying. Master control switch any of two receivers to converter or speakers or both transmit or c.w. for radioteletype keyin. High speed bug. Reverse tape recorder model 1-1100. Spare set of tubes and manuals for all the above items plus much more spare parts, paper, wire tubes. MUST BE SOLD AS A COMPLETE STATION ONLY! \$475. Alfred J. Burton W4ELQ, 1070 SW 6th Terr., Pompano Beach, Fla. Phone 943-1646 any time.

FOR SALE: FLORIDA SKIP has a good supply of the new ARRL OPERATING MANUALS just off the press, by W4MLE of Tallahassee. These Manuals are the answer to all our operating questions from DX to traffic nets. Nothing was overlooked. A must for every active amateur at only a buck. \$1.00 post paid, FLORIDA SKIP, Box 501, Miami Springs, Fla. 33166.

WANTED: Does anyone in Florida hold 3 amateur calls? Don Dayman K4QC, W8QC, K8QC, Box 205, Miami Springs, Fla. 33166.

FOR SALE: Complete 6 meter station fixed, mobile, 12 v./120 v. ac. HE-45B transceiver with HE-61A VFO, Saturn Halo, bumper clamp, matching transformer, 5 element beam with 35 foot pipe mast and guys, 50 foot RG8Ua cable. Extra mike all literature and schematics \$100.00 firm. E. Jessmer WB4AFM, 19299 SW 92nd Road, Miami, Fla. Phone 238-0903.

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AMATEUR TV

(Continued from Page 1)

TV had a Dage camera and a 14 inch monitor feeding an ART-26 surplus transmitter. Both stations used 16 element collinear ears about 70 feet high and operated in the upper half of the 420-450 mc band. At first they used the telephone for sound, later they ran 4.5 mc FM sub-carrier sound transmitted mixed with the video, but this method was not completely successful.

For receiving, a nuvistor converter was used at K4GYO, while W4NSA used a 5 inch transistor portable with the UHF converter retuned. Both stations also had 6299 preamps with 5db noise figures.

After they had been on for some months, Fred Pessaro WA4MBM, Cocoa, became interested and went on the air with a small Dage camera and an ART-28, all stations were within 6 miles of each other, and pictures were almost always noise-free.

In early 1965, Hal started construction of a pair of transistorized vidicon cameras with resolution, stability and reliability all far better than the old tube-type cameras Hal had nursed along for several years.

These cameras, shown in the picture of the station, met all expectations and produced pictures of broadcast quality, the cameras are of printed-circuit construction, are copies of a commercial unit and cost about 1/5 of its price to build.

Another major item in the K4GYO-TV station is the synchronizing generator, a home-built unit meeting broadcast standards in every respect. It uses about 55 transistors arrayed on four plug-in circuit boards, it was built at a cost of about 1/10 of the original commercial unit.

Other home built equipment includes the camera cables, the pulse distribution amplifiers, and a six input switcher with a dual channel fader which can produce effects such as lap dissolves and inserts, also, the video transmitter, which is crystal-controlled and has a grid-modulated 5894 output stage. The FM sound transmitter operates 4.5 mc. higher than the video carrier frequency with eight watts output, it is an adoption of a mobile transmitter made by Motorola.

Four Conrac monitors are used in the station, a viewfinder with a 5 inch tube was built for one of the cameras, using



That's Mike Hagans WA4ZGI at the mike of his newly built control console. Rigs Heath SB-100, Heath 2er, antennas Tri-bander 60 foot up with 7 element 2 meter beam 10 feet above Tri-bander. Mike with IBM in Panama City, recently moved from Washington, D.C. XYL Peggy is studying for her Novice. Hank Pettigrew K400C in foreground is visitor.

(Photo by W4IKB Chipley)

the parts from a Sony portable TV set.

The present video antenna is a 13 element yagi fed with 7/8 inch Heliac, plans are to replace it soon with a specially designed and constructed log-periodic. A separate yagi is used for the sound transmitter.

Test equipment includes a Tektronic 547 scope with dual trace plug-in modules, a TS-418 generator and Byrd power meter.

This amateur TV station is one of the finest and best equipped, that has been brought to our attention, and we can look forward to many interesting reports from K4GYO-TV.

The first two days of December, brought excellent UHF propagation, with the following results, a solid two hours of two-way contacts between Hal K4GYO-TV, and Dave W4TOD-TV Jack K4NTD-TV, Ace WB4AKJ-TV; Horace WA4NKN-TV, the latter four being here in Central Florida, with Hal at his Merritt Island QTH, the audio portions of the QSO's held on two-meters, Hal did place a phone signal on his sub-carrier up on 432, and this was received with a solid Q5 copy by the local stations, this test proved the feasibility and equipment, and will result with all the stations moving their audio up to the TV bands, very soon.

On 2 December, W4TOD, W4TOD-TV, K4NTD-TV and WA4AKJ-TV had a good snow-free

New QSL Bureau

By Dick Tesar-WA4WIP

The WA4, WB4, WN4 QSL Bureau was activated on November 2, 1966 in Sarasota, Florida.

The address is:

WA4, WB4, WN4 QSL Bureau
WA4WIP-Dick Tesar
2666 Browning Street
Sarasota, Florida 33577

Six large cardboard boxes were received from the W/K4 bureau in Chattanooga on November 9. Enclosed were some 13,000 plus QSL cards and envelopes for WA, WB, and WN4's. Processing began on Thursday the 10th and mailings were started on Friday the 11th of November 1966. As of this writing, all cards have been processed for hams having envelopes on file at the bureau. There are still several thousand cards on file, but no envelopes. This is the big hold up. If all active hams will forward SASE #50 manila envelopes as soon as possible, their cards will be forthcoming. We are in position at this time to give very good service. In fact, some envelopes received on a certain day, were shipped out with cards that same day.

It is the policy as of this writing, to immediately check the files when an envelope is received, if there are no cards on file, the envelopes will go into an alphabetical file and the cards will be shipped in rotation as we go through the letters from A to Z.

It is preferred that one five cent (5¢) stamp be placed on each envelope or if more than one is placed thereon, that only one be permanently affixed and the others so they may be taken off. Credit will be given each ham for those in envelopes with 10¢ or more stamps on them. It seems a real waste of money to me and I have been trying to make "change"... However, as time goes on, this will not be done.

Correspondence is being kept to a minimum and if you send a letter to the bureau asking for cards, you answer may be in the form of QSL cards sent to you in your envelope instead of a personal reply. We are trying to keep the detail work at a minimum and move out the cards.

Keep sending in those SASE #50 manila envelopes and as your cards come in, you'll get them as quickly as possible.

New Agreement

A reciprocal operating agreement is now effective between Panama and the United States. Amateurs of one country visiting or residing in the other may obtain permission to operate their own amateur stations there.

The United States has previously reached reciprocal agreements with Australia, Belgium, Bolivia, Canada, Colombia, Costa Rica, the Dominican Republic, Ecuador, France, Germany, India, Israel, Kuwait, Luxembourg, Nicaragua, Paraguay, Peru, Portugal, Sierra Leone and the United Kingdom.

Many others are being negotiated and successes will be announced as they occur. OB 89.

QSO with WA4BYR Lou in Englewood, Fla., about 125 air miles from Central Florida. This was a one-way with WA4BYR reporting his viewings, on 432 thru Jack K4NTD, and Jack relaying the reports via two meters to the others.

Lou does a lot of work on 432 and was one of the ones who had success with moon bounce transmissions.

We want to wish all a very Merry Christmas and prosperous New Year.

73 from Monty K4VFW
Orlando, Florida